

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001341610018-6

POGREBNYAK, Z.F., kand. sel'skokh. nauk; GORSKIY, B.Z., kand. tekhn.
nauk; Kladkevich, G.P., inzh.

Fireproof particle boards. Stroi. mat. 9 no.6:14-16 Je '63,
(MIRA 17:8)

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001341610018-6"

BOGDANOVICH, Galina Nikolayevna, kand. tekhn. nauk; BULAKOVSKIY, Vadim Ivanovich, kand. tekhn. nauk; GOLOVCHENKO, Pavel Sergeyevich, kand. tekhn.nauk; DEKHTYAR, Etya Mikhaylovna, inzh.; KARNAUKHOV, Nikolay Petrovich, inzh.; KLIMANOVA, Yekaterina Antonovna, kand. tekhn. nauk; KRAVTSOV, Boris Konstantinovich, kand. tekhn. nauk; LIBERMAN, Al'fred Davidovich, kand. tekhn. nauk; LUKASHENKO, Ivan Andreyevich, kand.tekhn. nauk; POGREBNYAK, Zinaida Fecfanovna, kand. tekhn. nauk; ROKHLIN, Il'ya Aleksandrovich, kand.tekhn.nauk; TRET'YAKOV, Lev Dmitriyevich, kand. tekhn. nauk; TSATSKINA, Frida Naumovna; REZNICHENKO, I.Ye., red.; LEUSHCHENKO, N.L., tekhn.red.

[Handbook for construction laboratories] Spravochnik dlia stroitel'-nykh laboratori. Pod red. B.K.Kravtsova. Kiev, Gosstroizdat, 1962. 821 p.
(MIRA 16:3)

1. Nauchnyye sotrudniki Akademii stroitel'stva i arkhitektury Ukr.SSR (for all except Reznichenko, Leushchenko).
(Building research--Handbooks, manuals, etc.)

GORSKIY, B.Z.; POGREBNYAK, Z.F.; OROBCHENKO, Ye.V.; PRYANISHNIKOVA, N.Yu.;
IVANCOVA, M.I.; KOMAROV, G.Ya.; KOMAROVA, Z.K.

Waterproofing additive for the manufacture of insulating and
semihard wood fiberboards. Der.prom. 11 no.5:12-13 My '62.
(MIRA 15:5)
(Hardboard) (Waterproofing)

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CIA-RDP86-00513R001341610018-6

POGREBNYAK, Z.F., kand. sel'skokhoz. nauk; KOMAROVA, Z.K., inzh.

Wood particle board floors with polymer coatings. Der.
prom. 14 no.9:7-8 S '65. (MIRA 18:12)

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001341610018-6"

L 51460-65 EEC(k)-2/EWT(d)/EWT(1)/FS(v)-3/EWA(d)/EWP(1) Pg-4/Pk-4/Pl-4/Po-4/
Pg-4/Pae-2 IJP(c) GW/BC

ACCESSION NR: AP5015501

UR/0286/65/000/008/0030/0030
621-503.53

4/9
B

AUTHOR: Pogrebnyy, B. P.

TITLE: A method for correcting errors in servosystems. Class 21, No. 170097

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 8, 1965, 30

TOPIC TAGS: error minimization, servosystem

ABSTRACT: This Author's Certificate introduces a method for correcting errors in servosystems, e.g. in the tracking systems of large telescopes. The correction is done by introducing a signal into the control circuit which is proportional to the integral of the error signal. The stability of the system is improved by introducing this signal if the error exceeds a certain calculated value.

ASSOCIATION: none

SUBMITTED: 28Sep62

ENCL: 00

SUB CODE: IE,DC

Card 1/2

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001341610018-6

L 51460-65

ACCESSION NR: AP5015501

NO REF SOV: 000

OTHER: 000

Card 2/2 MB

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001341610018-6"

L 32195-66 FBD/FSS-2/EWT(1)/EEC(k)-2 TT/GW/WS-2/WR

ACC NR: AP6006788

SOURCE CODE: UR/0033/66/043/001/0220/0226

AUTHOR: Zhuravlev, V. S.; Petrovskiy, A. A.; Pogrebnyy, B. P.

ORG: Radio Physics Institute, Gorkiy State University (Radiofizicheskiy institut
Gor'kovskogo gos. universiteta)

TITLE: General-purpose radio telescope with antenna diameter of 15m.

AB
111
105

SOURCE: Astronomicheskiy zhurnal, v. 43, no. 1, 1966, 220-226

B

TOPIC TAGS: radio telescope, radio telescope antenna, electric motor, interferometer,
elastic deformation, TV equipment, satellite, satellite tracking/RT-15 radio
telescope, Echo-II satellite, M1-32T electric motor, M1-52T electric motor,
PTU-3 TV equipmentABSTRACT: The RT-15 radio telescope for observation of celestial bodies and
artificial Earth satellites is described. Two such telescopes have been
in operation at Zimenki since 1962 and were used in a series of experi-
ments on a radio communication link established between Zimenki and
Jodrell Bank via the Echo-II satellite. A photograph of the RT-15 is
shown in Fig. 1.

The telescope together with its steering mechanism weighs
120 metric tons. Its height measured from the base of a steel-reinforced
foundation is 30 meters. The solid foundation does not allow the tele-

UDC: 523.164

Card 1/6

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CIA-RDP86-00513R001341610018-6

L 32195-66
ACC NR: AP6006788

0

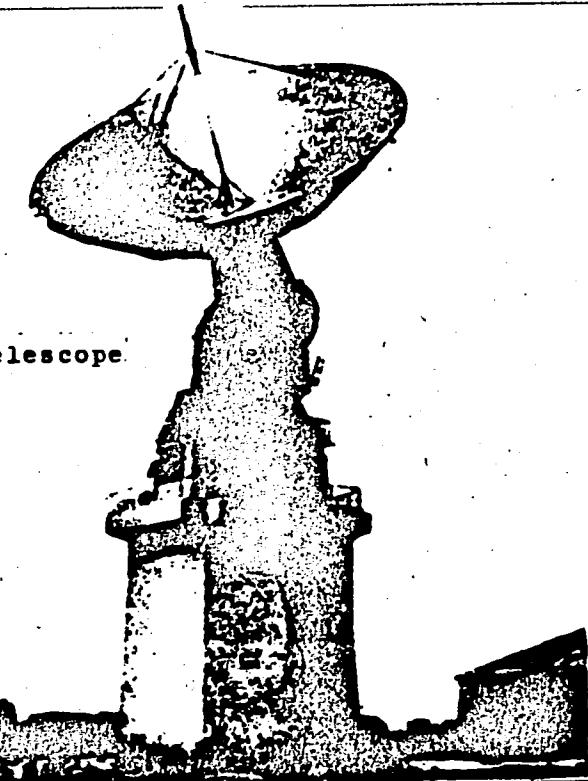


Fig. 1.

The RT-15 radio telescope

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CIA-RDP86-00513R001341610018-6"

L 32195-66

ACC NR: AP6006788

scope to sway more than 5" in winds up to 25 m/sec. The backlash effect and elastic deformations of the rotating mechanisms do not exceed 1.5' and are compensated by feedback systems. The dish antenna may be rotated from -3° to 183° with respect to two mutually perpendicular axes.

O

The error in establishing the perpendicularity of the axes did not exceed $\pm 30''$, and the error in aligning one of the axes in a particular direction was kept within $\pm 20''$.

The antenna system consists of two reflecting mirrors: a 15-m diameter parabolic reflector with the active surface machined to an accuracy of ± 0.75 mm and a coaxially mounted hyperbolic counter-reflector (not shown in Fig. 1) placed at a distance of 4.69 m from the apex of the first mirror. The power source for steering consists of two motors for each axis: the MI-32T (0.37 kw), which by means of a 240,000:1 reducer tracks slowly moving celestial objects, and the MI-52T (7 kw) with a 10,800 :1 reducer which allows the telescope to follow fast moving objects such as artificial Earth satellites.

The position of the telescopes may be controlled in three modes from a control unit located nearby. The automatic tracking mode directs the dish according to a previously prepared program punched on standard

Card 3/6

L 32195-66

ACC NR: AP6006788

35-mm tape. Discrete error signals arise when the data representing the desired telescope direction disagree with the data on the actual direction from the selsyn angle indicators, which give a discrete signal for every 12"-change in direction. The error signals are applied to the feedback loop of the tracking system. When fast-moving objects are being tracked, a velocity error signal commands most of the corrective action.

To reduce the amount of program input data, the desired velocity is computed by linear interpolation of rate of change of position data entered on punched tape. Strong velocity feedback introduces an undesirable constant-error component due to nonlinearities of the tachometers and temperature compensating elements. This error is compensated with the aid of a unit which regulates tachometer characteristics. The system works in a synchronous mode established by the master clock—a quartz crystal whose output signal frequency is divided by 2²¹.

The second control mode is for visual tracking and is done manually by varying the position or velocity of telescope rotation or both by semi-automatic means. The tracking accuracy depends on the operator's ability to keep the image of the tracked object on the intersection of the cross-hairs on the TV receiving screen. The image on the screen

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L 32195-66

ACC NR: AP6006788

originates from a TV transmitter coupled to an optical telescope installed on the reflector. The TV link uses the standard PTU-3 industrial TV system. The objects for this mode of tracking must be brighter than 6 m.

The third mode is tracking of celestial bodies with the use of tabulated data from previous observations. Angle or velocity tracking is done manually by entering the angle and velocity data from tables into the system every 2, 4, or 16 minutes, depending on the desired accuracy. After each tracking time interval, the desired and actual telescope position angles are compared. The nonagreement between the two, i.e., the error signal, is stored on a capacitor and included as supplementary information for the next tracking interval.

The characteristics of each tracking mode are given in the accompanying table.

The two radio telescopes may also be utilized as interferometers or as spares for each other.

Card 5/6

L 32195-66

ACC NR: AP6006788

Table 1. Tracking mode data

6

Operating mode	Velocity	Acceleration	Velocity range	Tracking error
Rapid movement				
Automatic tracking	1.5°/sec	0.1°/sec ²	—	24—36"
Visual tracking	1.8°/sec	0.15°/sec ²	150	—
Realignment	2.0°/sec	0.15°/sec ²	150	—
Slow movement				
Automatic tracking	80"/sec	5.10 ⁻² "/sec	—	24—36"
Visual tracking	80"/sec	3"/sec	150	30"
Tracking with data tables	80"/sec	—	300	60"*

* At top speed using 2-min tracking intervals.

A. Ye. Sokolov, A.Z. Shaniro, G. L. Bruk, Yu. N. Semenov, N. M. Krutkova, and I. S. Motin participated in the designing and preparation of the radio telescope.
 Orig. art. has: 7 figures and 1 table. [FSB: v.2, no. 57]

SUB CODE: 17,09, 22 / SUBM DATE: 26Feb65

LS
 Card 6/6

POGREBOV, A. G.

Rusakov, V. P., and Pogrebov, A. G. "The Elements of the Terrestrial Magnetic Field in the City of Smolensk." Materiały k Izucheniu Estestvennykh Proizvoditel'nykh Sil Zapadnoi Oblasti, Geofizika, vol. 2, 1933, p. 115-127.

PORGREBOV, A. G.

Rusakov, V. P., and Pogrebsov, A. G. "Methods for Determining the Content of Radium and the Radicactivity of Phosphates." Materiały k Izucheniu Proizvoditel'nykh Sil Zapadnoi Oblasti, Geofizika, vol 3, 1935, pp. 25-39.

Pogrebny, A. G.,

Pogrebny, A. G., and Epstein, B. S. "Reconnaissance Magnetic Surveys of some Regions in the South-Eastern Part of the Western District." Magnitnye Anomalii Smolenskoi i Orlovskoi Oblastei, Smolensk, 1938, p. 123-131.

POGREBOV, A. G.

Pogrebov, A. G. "Reconnaissance Magnetic Surveys in the Regions of Iaruniansk of the Province of Smolensk." Materiały k Izucheniiu Zastroyennym Preizvestitel'nykh Sil Smolenskoi Oblasti, Smolensk, vol. 5, 1938, pp. 27-45.

POGREBOV A. I.

AUTHOR DAVIDENKO, V.A., POGREBOV, A.I., SAUKOV, A.I., PA - 2729
TITLE The Determination of the Shape of the Excitative Curve of the
Reaction T(d,n)He⁴.
(Opravleniye formy krivoy vozbuždeniya reaktsii T(d,n)He⁴ - Russian)
Atomnaya Energiya, 1957, Vol 2, Nr 4, pp 386-388, (U.S.S.R.)
Received 5/1957 Reviewed 6/1957

PERIODICAL

ABSTRACT In the investigations described in the paper under review, the deuterium ions were accelerated by means of an acceleration tube with magnetic analyzer. The measurements were carried out in thick and thin zirconium-tritium targets at deuteron energies of E_d to 225 keV. The thick targets were made of zirconium foils of a thickness of 0.02 to 0.05 mm. The zirconium foil used for making thin targets contained radioactive zirconium (Zr95). The targets were vaporized in vacuum upon a zirconium foundation. The targets were saturated with tritium in a vacuum chamber with a tritium pressure of 20 to 30 mm of mercury. The present paper contains a short description of how this saturation was carried out. The measurements were carried out with two targets of a thickness of 0.01 + 0.003 micron and 0.012 ± 0.003 micron respectively. The neutron current produced at the reaction T(d,n)He⁴ was measured by means of threshold-value indicators of copper. The β-activity of the indicator was measured with the aid of thin aluminum counters. The curve of output $N = f(E)$ has a point of inflection, after which the gradient of the curve rapidly decreases. Therefore the differentiation may lead to considerable errors. For this reason, the data which were obtained with

Card 1/2

POGREBOV I
DAVIDENKO, V.A.; KUCHER, A.M.; POGREBOV, I.S.; TUTUROV, Yu.P.

Determination of the total cross section of the D(d,n) He^3 reaction
in the 20-220 KeV energy range. Atom. energ. suppl. no. 5:7-14 '57.
(Nuclear reactions) (MIRA 11:2)

POGREBOV, I. S.

"Determination of the Excitation Curve of T(d,n)He⁴ Reactions," by V. A. Davidenko, I. S. Pogrebov, and A. I. Saukov,
Atomnaya Energiya, Vol 2, No 4, Apr 57, pp 386-388

Disagreement is noted between several works published on the cross section of the T(d,n)He⁴ reaction. An experiment carried out to determine a more precise excitation curve is described. Measurements were made over neutron energies 40-225 Mev. The most probable value for the cross section is given as $5 \cdot 10^{-24}$ cm.

JUN 14 1957

1. POGREBOV, N. F.
2. USSR (600)
4. Pogrebov, Nikolai Fedorovich, 1860-1942
7. Meeting in memory of N. F. Pogrebov, Izv. Vses. geog. ob-va, 85, no. 2, 1953.
9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

USPENSKIY, V.N., glav., red.; TER-ARUTYUNYANTS, G.O., zam. glav.
red.; AIR-BALAYAN, Ya.A., red.; BOGORAD, D.I., red.;
KAPLAN, L.Z., inzh., red.; MALYSHENKO, O.A., red.;
MEZENTSEV, I.V., red.; BONDARENKO, I.I., red.; NELYUBIN,
K.P., red.; OREKHOV, V.M., red.; POGREBOV, S.N., red.;
SLIVAK, I.M., kand. tekhn. nauk, red.; STANISLAVSKYIY,
A.I., red.; SLUTSKIY, G.M., red.; SOLOFENENKO, N.A., red.

[Transportation and engineering facilities of cities; an
aid to designers] Transport i inzhenernoe oborudovanie go-
rodov; v pomoshch' proektirovchiku. Kiev, Budivel'nyk,
1964. 100 p. (MIRA 18:5)

1. Ukrainskiy gosudarstvennyy institut proyektirovaniya
gorodov. 2. Gosstroy SSSR (for Kaplan, Orekhov). 3. Gosstroy
USSR (for Pogrebov). 4. Kiyevskiy inzhenerno-stroitel'nyy
institut (for Slivak). 5. Kiyevskiy Gosudarstvennyy institut
proyektirovaniya gorodov (for Uspenskiy, Ter-Arutyunyants,
Malyshenko, Mezentsev, Bondarenko). 6. Leningradskiy Gosudar-
stvennyy institut proyektirovaniya gorodov (for Nelyubin).
7. Tsentral'nyy nauchno-issledovatel'skiy i proyektinnyy insti-
tut po gradostroitel'stvu, Moskva (for Solofnenko). 8. Kiyevskoye
upravleniye po proyektirovaniyu zhilishchno-grazhdanskogo i
kommunal'nogo stroyitel'stva (for Slutskiy).

1 20767-66 EWT(1)/EWT(m)/T/EWP(f) WH/DJ
ACC NR: AP6009858 (N)

SOURCE CODE: UR/0413/66/000/004/0052/0052

INVENTOR: Bulychev, F. V.; Tsentsiper, M. L.; Smirnova, I. V.; Pogrebov, V. M.
Veyraukh, A. N.

ORG: none 1

TITLE: Free-piston hydraulic compressor. Class 27, No. 178930
23,5

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 4, 1966, 52

TOPIC TAGS: compressor design, hydraulic equipment

ABSTRACT: An Author Certificate has been issued for a free-piston hydraulic air compressor consisting of a housing with a hydraulic-drive cylinder in its center portion, and compressor cylinders, pistons, and a slide-valve arrangement which interacts with a synchronization mechanism, on both sides. To improve equilibrium and reduce the compressor's dimensions, the cylinders' pistons are in the form of two piston groups with an articulated joint between the compressor-cylinder and the hydraulic-drive-cylinder pistons. The slide-type distributing valve of the hydraulic drive can be operated by a cam mounted on the spindle of the synchronization mechanism. [WH]

SUB CODE: 13/ SUBM DATE: 23Jul62/ ATD PRESS: 4226

Card 1/1

UDC: 621.512.3

35
B

I 47221-55 EPP(c)/EWP(j)/EWT(m)/EWP(b)/T/EWA(q)/EWP(t) | PC-4/PR-4 RW/JD/WB

UR/0286/65/000/007/0085/0085

ACCESSION NR: AP5010896

AUTHORS: Antropov, I. I.; Vrzchsek, G. G.; Pogrebova, I. S.; Dremova, G. I.;
Shklyanaya, I. V.; Chumakov, Yu. I.

TITLE: A method for protecting metals from corrosion by acids. Class 22,
No. 169725

SOURCE: Byulleten' inobreteniij i tovarnykh znakov, no. 7, 1965, 85

TOPIC TAGS: corrosion preventative, acid etching, inhibitor, hydroxypyridine,
monomethylthiourea

ABSTRACT: This Author Certificate presents a method for protecting metals from
corrosion by acids in the process of etching. The method involves introducing an
inhibitor into the etching solution. To broaden the assortment of materials,
chlor-N-alkylate-3-hydroxypyridine (especially chlor-N-decilate-3-hydroxypyridine)
with 6-16 carbon atoms in the alkyl radical is used as the inhibitor. Monomethyl-
thiourea may be added to chlor-N-alkylate-3-hydroxypyridine.

ASSOCIATION: none

Card 1/2

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L 41321-65

ACCESSION NR: AP5010896

SUBMITTED: 06Apr64

ENCL: 00

SUB CODE: MM

NO REF Sov: 000

OTHER: 000

Card 2/27/65

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001341610018-6"

10

PROCESSED AND PROPERTIES INDEX

UP AND ON THE CAMP

B-I-2

- (4) Bitternaceous shale deposits of the Pervozvannoy district. N. V. Tsvetkov. (5) Kuznetsk shales in Batum. V. R. Sosulin. (6) Bitternaceous shales as fuel in industry in connection with the construction. N. V. Razovskii. (7) Composition of bitumen present in shale, and the influence of various factors on the oil yield from the kerogen. K. J. Luria. (8) Pyrolysis of kerogen of shale at various temperatures. P. N. Kozman. (9) History of the technological conversion of bitumenous shale. V. Phan. (10) Distillation of shale in the Omskobay refinery. (11) Preparation of ketyl from Volga shale. S. Markov. (12) Technology of shale. V. R. Sosulin. (13) Distillation of shale and chemical treatment of shale tar. V. V. Tsvetkov. (14) Application of shale ash in the manufacture of building material. M. N. Savchenko (Batem. Shale Tech. Util., 1952, 12—61, 21—55, 121—161, 242—255, 256—265, 267—273, 274—280, 281—285, 291—295, 301—426, 437—446). (c) Comprehensive analytical data are given and discussed.

(n) At 100° dehydration and separation of oxidized

of the hexagon being complete at 380–390°. The cracking reaction is endothermic below 415–430°. Above 470° exothermic reactions prevail. The max. yield of liquid distillation products was obtained at 470–500°. Above 750° gas formation increased, and aromatization of the tar began.

(x) Tests are described showing that shale ash might replace Portland cement. It is also a good insulating material.

Ch. Am. (c)

410.1 LA METALLURGICAL LITERATURE CLASSIFICATION

100% GUARANTEED

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001341610018-6"

POGREBSHCHIKOVA, T.A., assistant

Effect of novocaine and drug-induced sleep on capillary permeability
in intravenous injection of novarsenol in animals. Vest.ven. i derm.
no.6:26-29 N-D '54. (MLRA 8:2)

1. Iz kafedry kozhnykh i venericheskikh bolezney (zav. G.G. Kondrat'yev)
Krymskogo med. inst. imeni I.V. Stalina (dir.-dotsent S.I. Georgiyevskiy)

(CAPILLARY PERMEABILITY

eff. of procaine & ther. sleep in intravenous inject. of
exophenarsine in rabbits)

(PROCAINE, effects

on capillary permeability in intravenous oxophenarsine
inject. in rabbits)

(SLEEP, effects

ther. sleep on capillary permeability in intravenous
inject. of oxophenarsine in rabbits)

(OXOPHENARSINE

intravenous inject., eff. of procaine & ther. sleep on
capillary permeability in rabbits)

POGREBSHCHIKOVA, T.A., Assistent; MAL'TSEVA, A.K.

Necrobacillosis im man. Vest.ven. i derm.no.3:44-46 My-Je '55.
(MLHA 8:10)

1. Iz kliniki kozhnykh i venericheskikh bolezney (zav.-prof. G.G.
Kondrat'yev) Krymskogo meditsinskogo instituta imeni I.V.Stalina.
(INFECTION
necrobacillosis, diag. & ther.)

POGREBSKIY, Viktor Nikolayevich; LEONOVA, T.S., red.; RAKITIN,
I.T., tekhn. red.

[New advances in veterinary medicine; how to control infectious
diseases in animals] Novoe v veterinarii; kak borot'sia s in-
fektsionnymi zabolеваниями zhivotnykh. Moskva, Izd-vo
"Znanie," 1962. 39 p. (Novoe v zhizni, nauke, tekhnike. V Se-
riia: Sel'skoe khoziaistvo, no.15) (MIRA 15:7)
(Communicable diseases in animals)

POGREBTSOV, B., kand. tekhn. nauk (Novocherkassk); MINENKOV, I., inzh.
(Novocherkassk)

Device for locating welded joints in steel wire. Radio no.1:
43 Ja '66. (MIRA 19:1)

POGREBTSOV, B.Ya.; MINENKOV, I.I.

Using a generator with a bypass diode to determine the thickness
of the zinc covering of a steel wire. Trudy NPI 137:37-46 '62.
(MIRA 16:10)

AUTHOR: Pogrebtskov, B. Ya., Postgraduate Student 80V/144-58-9-14/18

TITLE: Electromagnetic Instrument for Testing the State of
Mine Haulage Ropes (Elektromagnitnyy pribor dlya
kontrolya sostoyaniya rudnichnykh pod'yemnykh kanatov)

PERIODICAL: Izvestiya Vysshikh Uchebnykh Zavedeniy, Elektromekhanika,
1958, Nr 9, pp 105-111 (USSR)

ABSTRACT: All the instruments available for testing such ropes
can be sub-divided into the following two groups:
instruments for testing the state of ropes on the basis
of individual factors, e.g. fractures of individual wires,
changes in the wire cross section etc; instruments for
combined control of the state of haulage ropes, which
permit determining the combined effect of all the factors
and establishing the real strength of the wire. An
instrument of the second type was first produced in
Canada in 1946 and it is still being tested in Canadian
mines. A similar instrument was produced in 1953 at the
Mining Institute, Ac.Sc. Ukraine. It is based on the
principle that energy absorbed by a specimen inside a
magnetic field of a coil through which an alternating

Card 1/3

SOV/144-58-9-14/18

Electromagnetic Instrument for Testing the State of Mine Haulage
Ropes

permits detection of a notch in a single wire located inside the rope. From the obtained oscillogram it is possible to evaluate reliably and correctly the location of external as well as internal defects. Such apparatus permits not only detecting the location of wire breaks but also of wire sections which are affected by corrosion. The recording of defects can be effected either on a film or by throwing onto the wire (on the defective spots) a dye by means of special equipment which is combined with the search coils.

There are 12 figures, 1 table and 5 references, 2 of which are Soviet, 2 German, 1 English.

ASSOCIATION: Kafedra gornoj mekhaniki, Novocherkasskiy politekhnicheskiy institut
(Chair of Mining Mechanics, Novocherkassk Polytechnical Institute)

SUBMITTED: July 5, 1958

Card 3/3

POGREBTSOV, Boris Yakovlevich, assistent

Theory and practice of a method for controlling the manu-
facture steel cable wire by use of eddy currents. Izv.vys.
ucheb.zav.; elektromekh. 3 no.5:40-51 '60.
(MIRA 13:7)

1. Kafedra gornoy mekhaniki Novocherkasskogo politekhnicheskogo
instituta.
(Electric wire) (Automatic control)
(Electric currents, Eddy)

POGREBTSOV, B. YA., CAND TECH SCI, "FLAW DETECTION IN
STEEL CABLES AND WIRE." KHAR'KOV, 1961. (MIN OF HIGHER
AND SEC SPEC ED UKSSR. KHAR'KOV MINING INST). (KL-DV,
11-61, 222).

-174-

POGREBYAK, O.K. [Pohrebniak, O.K.]

New medicinal substances. Farmatsev. zhur. 17 no.1:88-94
'62. (MIRA 15:6)

(DRUGS)

GNEDENKO, B.; POGREBYSSKIY, I.

Tenth anniversary of "Studies in the history of mathematics." Ukr.
mat. zhur. 10 no.2:229-230 '58. (MIRA 11:6)
(Mathematics--History--Periodicals)

POGREBISKIY, I-B

Zadiraka, K. V., and Pogrebis'kiy, I. E. On the application
of S. A. Caplygin's method of approximate integration of
ordinary differential equations to a boundary problem.
Dopovidi Akad. Nauk Ukrainsk. RSR, 1950, 95-100 (1950).
(Ukrainian. Russian summary)

The paper applies Caplygin's method to the solution of a
Sturm-Liouville boundary value problem and illustrates the
procedure by two specific examples. W. E. Milne.

Source: Mathematical Reviews,

Vol. 13 No. 7

Soviet
group

POGREBYSSK/Y I. B.

Pogrebyskii, I. B. On computation of integrals of rapidly oscillating functions and on exponential interpolation. Ukrains. Mat. Z. 7 (1955), 291-294. (Russian)

The author discusses approximation of a function $f(y)$ over a finite interval by exponential interpolation, that is, by a sum of the form (1) $\sum_{k=1}^n A_k \exp(\beta_k y)$. The technique is of value in evaluation of integrals of the form $\int_a^b f(y) \exp(i\lambda y) dy$ when λ is real and large. Assuming $f(y)$ to be given at $2n$ equally spaced values of y , the author

shows how the coefficients A_k and β_k can be found so that (1) is equal to $f(y)$ for the given values. It is necessary to solve a system of n equations of first degree, and one equation of n th degree. If $f(y)$ is given at $s > 2n$ equally spaced values, it is necessary to use the method of least squares or a similar technique. No quantitative discussion of error is given. The technique of exponential interpolation is mentioned briefly in Whittaker and Robinson, "Calculus of observations" [3rd ed., Blackie London-Glasgow, 1940].

W. S. Loud.

POGREBYSKIY, I. B.

✓ Pogrebyskiy, I. B. Graphical solution of systems of
linear algebraic equations. Ukrain. Mat. Z. 7 (1955),
419-422. (Russian) 14

The methods of descriptive geometry are applied, but
recommended only for systems of order 5 or less. The
method is illustrated merely by a system of order 3 and
one of order 4, and is not easily described in a few words.
For order 3, in the plane of the graph one axis represents
 x_1 or x_3 interchangeably, the other x_2 . Hence the paper
represents simultaneously two of the coordinate planes
(four for a 4th order system). One proceeds by plotting
sections and projections in appropriate sequence, ob-
taining ultimately the projections of the solution upon
the two coordinate planes. A. S. Householder.

GNEDENKO, B.V.; POGREBYSSKIY, I.B.

Evgenii IAkovlevich Remez; on the 60th anniversary of his birth.
Ukr.mat.zhur. 8 no.2:218-222 '56. (MLRA 9:8)
(Remez, Evgenii IAkovlevich, 1896-)
(Bibliography--Mathematics)

GNEDENKO, B.V.; POGREBYSSKIY, I.B.

Development of mathematics in the Ukraine. Ist.-mat.issl.no.9:
403-426 '56. (MIRA 9:9)
(Ukraine--Mathematics)

POGREBYSSKIY /
GNEDENKO, B.; POGREBYSSKIY, I.

Letter to the editors of "Istoriko-matematicheskie issledovaniia"
Ist.-mat. issl. no.10:766 '57. (MIRA 11:1)
(Ukraine--Mathematics)

POGREBYSSKIY, I.B.

28(2) ^{fi3} PHASE I BOOK EXPLOITATION

SOV/1345

Akademiya nauk Ukrainskoy SSR. Vychislitel'nyy tsentr

Voprosy vychislitel'noy matematiki i tekhniki (Problems in Computer Mathematics and Technique) Kyiv, Izd-vo AN Ukrainskoy SSR, 1958. 97 p. (Series: Its: Sbornik trudov, vyp. 3) 7,000 copies printed.

Editorial Board: Glushkov, V.M., Doctor of Physical and Mathematical Sciences (Resp. Ed.), Dashevskiy, L.N., Candidate of Technical Sciences, and Shkabara, Ye. A., Candidate of Technical Sciences; Ed. of Publishing House: Kaplan, Ya. L.; Tech. Ed.: Rakhilina, N.P.

PURPOSE: This collection of articles, issued by the Computer Center of the Ukrainian SSR Academy of Sciences, is intended for scientists and engineers in the field of computer mathematics and techniques, and for students of vuzes specializing in this field.

COVERAGE: The collection is devoted to the programming of mathematical problems on electronic computers and to the design of

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Problems in Computer Mathematics (Cont.)

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units and components of these machines. A number of the articles contain information on scientific research carried out in 1955-1956, a description of installations already developed and some information on the operation of existing machines. An original method of performing multiplication and division in the arithmetic units of computers is described in the first article. Programming of problems connected with the statistical control of production are discussed in the second paper. The third and fourth articles deal with questions concerning the development of individual units of electronic computers. A description of standard components is given in the fifth and their design for maximum reliability is discussed in the sixth article. The seventh, eighth, and ninth articles explain the design of circuits with semiconductor and magnetic elements and the tenth article deals with problems concerning the operation and maintenance of electron tubes. References appear after each article.

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Problems in Computer Mathematics (Cont.)

SOV/1345

authors explain the procedure for calculating these tables as applicable for programming on the small electronic tabular calculator MESM of the Ukrainian SSR Academy of Sciences. There are 2 Soviet references.

Rabinovich, Z.L. Arithmetic Unit of the Specialized Electronic Calculator SESM-1

18

The author describes the circuit and operating principle of the series-action arithmetic unit of the SESM-1 machine and explains how operations are performed in it. The SESM-1 is used for solving systems of linear algebraic equations by Zeidel's method.

The author thanks the following persons for their cooperation in developing details of the arithmetic unit: Engineer A.L. Gladyshev (control of arithmetic units), V.V. Kraynitskiy (internal storage memory), and I.T. Parkhomenko (summator and control of operations).

There are 3 Soviet references.

Card 4/8

Problems in Computer Mathematics (Cont.) SOV/1345

gate circuit. There is 1 Soviet reference.

Dashevskiy, L.N. Design of Symmetrical Flip-Flops for Maximum Reliability

55

The author explains the design procedure and derives and discusses the necessary formulas. Technical data are provided. There are 6 references, of which 4 are English and 2 Soviet.

Kondalev, A.I., and B.N. Malinovskiy. Dynamic Flip-Flop With Triode Transistors

71

The authors describe a dynamic flip-flop using point-contact triode transistors, discuss its circuit and provide experimental data on its performance under various operating conditions. There are no references.

Abalyshnikova, L.M., and S.B. Pogrebinskij. Investigation of a Flip-Flop With Junction Triode Transistors

76

The authors discuss the circuit of a flip-flop using junction type transistors, which ensures stable operation

Card 6/8

Problems in Computer Mathematics (Cont.)

SOV/1345

at frequencies up to 400 kc. They also explain a method for approximate calculation of circuit parameters and provide results of experimental investigation. There is 1 Soviet reference.

Zorina, Z.S., and Ye.A. Shkabara. Ferrite-core Gates Controlled by Triode Transistors

84

The authors explain why gates with magnetic elements in a flip-flop circuit using triode transistors are preferable to gates using diode-transformers in the same circuit. There are 5 references, of which 4 are Soviet and 1 English.

Abalyshnikova, I.M. Some Results of an Investigation of Electron Tube Performance in High-speed Electronic Computers

94

The author presents statistical data on the causes of breakdown of electron tubes in high-speed computers with respect to operating conditions. In conclusion, the

Card 7/8

SHTOKALO, Iosif Zakharovich; POGREBYSKII, I.B. [Pogrebis'kyi, I.B.], red.; REMENNIK, T.K., red.izd-va; MIL'OKHIN, I.D., tekhn.red.

[Outline of the development of mathematics in the Ukraine during the 40 years of the Soviet regime] Narys rozvytku matematyky na Ukrainsi za 40 rokiv Radians'koi vladys. Kyiv, Vyd-vo Akad.nauk URSR, 1958. 81 p.
(Ukraine--Mathematics)

OSTROGRADSKIY, Mikhail Vasil'yevich; SMIRNOV, V.I., akademik, red.;
GNEDENKO, B.V.; MARON, I.A., dotsent; ANTOPOVA, V.I., dotsent;
POGREBYSSKIY, I.B., dotsent; POLYAKHOV, N.N., prof.; HEMEZ, Ye.Ya.,
prof.; SMIRNOV, V.I., akademik; FIKHTENGOL'TS, G.M., prof.;
TRAVIN, N.V., red.izd-va; PEVZNER, P.S., tekhn.red.

[Selected works] Izbrannye trudy. Red. V.I. Smirnova. Stat'ia
B.V. Gnedenko i I.A. Marona. Primechaniiia V.I. Antropovoi i dr.
Izd-vo Akad.mauk SSSR, 1958. 583 p. (MIRA 11:12)

1. Deystvitel'nyy chlen AN Ukrainskoy SSR (for Gnedenko).
(Calculus) (Mathematical physics) (Mechanics)

POGREBYSSKIY, I.B.

KELMAN, E

P 4

16(1) PHASE I BOOK EXPLOITATION 307/1366

Istoriko-matematicheskiye issledovaniya, vyp. 11 (Research in
Mathematical History, Nr 11) Moscow, Nauksgiz, 1958. 792 p.
3,000 copies printed.

Eds. (Title page): Rytkin, G.P. and Tushkevich, A.P.; Ed., (Inside
book); Konoplyankin, A.A.; Tech. Ed.: Murashova, N. Ya.

PURPOSE: This book is intended for mathematicians and others
interested in the history of mathematics, and may serve as the
basis for a suitable university text on the history of mathematics,
thereby filling the most serious gap in Soviet mathematical
literature.

COVERAGE: This book contains reports made by members of the section
on the history of mathematics at the Third All-Union Mathematical
Congress which discussed problems of the history of mathematics and
various articles on the significance of the history of mathematics

Card 1/8

Gnedenko, B.V. and I.B. Pogrebysskiy (Kiev). On the
History of Mathematics and Its Significance for
Mathematics and Other Sciences

441

26630
S/044/60/000/002/008/009
C111/C222

16.6800

AUTHORS: Pogrebinskiy, S.B., and Pogrebysskiy, I.B.

TITLE: On the performance of the operations of multiplication and division with the aid of electronic digital computers

PERIODICAL: Referativnyy zhurnal. Matematika, no. 2, 1960, 214-215,
abstract 2377. (Sb. tr. Vychisl. tsentra. AN USSR. 1958,
vyp 3, 3 - 8)

TEXT: Usually the initial numbers for a digital computer are given approximately with n digits. If the exactness of the result of an operation shall not be greater than the exactness of the initial numbers then the methods of the "shortened multiplication" and "shortened division" can be used.

For the usual performance of the multiplication and division the adder of the arithmetic block, beside of the addition, carries out still shifts towards the right-hand side (sums of the partial products for the multiplication) and the left-hand side (remainders for a division). In a "shortened multiplication" in every elementary tact the multiplicand is

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On the performance of the operations ... +

displaced on its register and it is led to the adder in dependence of the presence of the unity in the corresponding place of the multiplier, where at first the highest place is analyzed. n such tacts are necessary for obtaining the product. Since for every tact after the shift the multiplicand losses one place in the result there appears an error. In order to make this error smaller than it was admissible for the representation of the initial numbers, e.g. smaller than one unity in the n-th place, it is sufficient to have m additional places in the registers of the multiplicand, where m can be determined from the relation

$$(n-m)2^{-m} < 1.$$

Here m becomes essentially smaller than n. For the "shortened division" the dividend and the subsequent remainders are on the adder, while for every tact the divisor is shifted on its register towards the right-hand side and, as it is usual, it is subtracted from the corresponding remainder or added to it in dependence of the sign of the preceding remainder. Here it is also sufficient to have the same m additional places in the adder and in the register of the divisor in order that the error

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On the performance of the operations ... C111/C222

of the quotient appearing by the loss of the lower places of the divisor does not exceed a unity of the n-th place. Thus, the adder is relieved from the shift function by an unessential enlargement of the number of places in the adder and in the register of the multiplicand (divisor). Beside of the general simplification of the scheme of the adder, this permits to enlarge the velocity of the multiplication and division operations by a simultaneous performance of the elementary operations of the shift and the addition.

[Abstracter's note : Complete translation.]

X

Card 3/3

FEDERAL BUREAU OF INVESTIGATION, WASH. D.C.

41-1-14/15

AUTHOR: SOKOLOV, Yu.D. and POGREBYSSKIY, I.B.

TITLE: Iosif Zakharovich Shtokalo (On his 60 th Birthday) (Iosif
Zakharovich Shtokalo (k shestidesyatiliyu so dnya rozhde-
niya)

PERIODICAL: Ukrainskiy Matematicheskiy Zhurnal, 1958, Vol. 10, Nr 1, pp.
105 - 106 (USSR)

ABSTRACT: Course of life and appreciation of the Ukrainian mathemati-
cian, member of the Ukrainian Academy of Sciences I.Z.
Shtokalo . His essential scientific contribution: Stability
investigation of linear differential equations with quasi-
periodical coefficients.

AVAILABLE: Library of Congress

1. Differential equations-Solutions-Stability

Card 1/1

AUTHOR: Gnedenko, B. and Pogrebysskiy, I. SOV/41-10-2-12/13
TITLE: Ten Years of "Historical-Mathematical Investigations" (Desyat' let "Istoriko-matematicheskikh issledovaniy")
PERIODICAL: Ukrainskiy matematicheskiy zhurnal, 1958, Vol 10, Nr 2, pp 229-230 (USSR)
ABSTRACT: The article is devoted to the publication of the tenth volume of the journal "Historical-Mathematical Investigations" which exists since 1948. It is proposed to pay more attention to the development of entire directions and to examine the existing conceptions concerning older parts of mathematics.

1. Mathematics--History

Card 1/1

Gnedenko, B.V. (Kiyev); Pogrebysskiy, I.B. (Kiyev)

History of mathematics and its importance for mathematics and
other sciences. Ist.-mat.issl. no.11:441-460 '58.
(MIRA 12:1)

(Mathematics)

AUTHORS: Gnedenko, B.V., and Pogrebysskiy, I.B. SOV/42-13-5-13/15
TITLE: Ten Years of "Historical-Mathematical Investigations" (Desyat' let "Istoriko-matematicheskikh issledovaniy")
PERIODICAL: Uspekhi matematicheskikh nauk, 1958, Vol 13, Nr 5, pp 229-234 (USSR)
ABSTRACT: This is a review on the merits of the periodical "Istoriko-matematicheskiye issledovaniya" (edition 3000-4000 copies). Aims of the periodical: 1) Communications on scarcely known questions of the (especially Russian) history of mathematics, 2) examination and improvement of the older interpretations in mathematics. The authors regret that the papers published in the periodical are somewhat one-sided; mostly the Russian mathematicians are treated while the western mathematics as well as the mathematics of Japan, of Rome and the Middle Ages etc. is scarcely mentioned.

Card 1/1

OSTROGRADSKIY, Mikhail Vasil'yevich [deceased]; SHTOKALO, I.Z., akademik, otv. red.; BOGOLYUBOV, N.N., akademik, otv.red.toma; Gnedenko, B.V., akademik, red.; ISHLINSKIY, A.Ya., akademik, red.; REMEZ, Ye.Ya., red.; SAVIN, G.N., akademik, red.; SOKOLOV, Yu.D., red.; SMIRNOV, V.I., akademik, red.; YUSHKEVICH, A.P., prof., red.; POGREBYSSKIY, I.B., dotsent, red.; SHTELIK, V.G., red.ind-va; RAKHLINA, N.P., tekhn.red.

[Collected works in three volumes] Polnoe sobranie trudov v trekh tomakh. Kiev, Izd-vo Akad.nauk USSR. Vol.1. 1959. 310 p.
(MIRA 12:8)

1. AN USSR (for Shtokalo, Gnedenko, Ishlinskiy, Savin). 2. Chlen-korrespondent AN USSR (for Remez, Sokolov).
(Science)

POGREVETSKIY, Y.B. [Fohreby's'kyi, I.B.]

Euler's contributions in mechanics. Ist.-mat. zbir. 1:40-70 '59.
(MIRA 14:2)

(Euler, Leonard, 1707-1783)

(Mechanics)

ISHLINSKIY, O.Yu. [Ishlins'kyi, O.IU.]; POGREBETSKIY, Y.B. [Pohrebys'kyi, I.B.]

Contribution of O.M. Liapunov to the solid state dynamics. Ist.-mat.
zbir. 1:140-150 '59. (MIRA 14:2)
(Dynamics)

POGREBYSSKIY, I.B. [Pohrebys'kyi, I.B.]

An error in Lagrange's "Analytical mechanics." Prykl.tekhn. 5
no.2:220-225 '59.
(MIRA 12:9)
(Mechanics, Analytic)

HUDYMOVKO, F.I. [Hudymenko, F.S.]; POGREBYSSKII, I.B. [Pohrebys'kyi, I.B.]; SAKOVICH, G.N. [Sakovych, H.N.]; CHAYKOVSKIY, N.A. [Chaikovs'kyi, M.A.]; SHTOKALO, I.Z., akademik, otv.red.; RAK, L.K., red.-leksikograf; BUHIIY, R.O., tekhn.red.

[Russian-Ukrainian mathematics dictionary; 12000 words] Russko-ukrainskii matematicheskii slovar'; 12000 terminov. Izd-vo Akad. nauk USSR, 1960. 162 p.

(MIRA 13:7)

1. AN USSR (for Shtokalo).
(Mathematics--Dictionaries)
(Russian language--Dictionaries--Ukrainian)

POGREBYSSKIY, I.B.

Mechanics of systems with ideal conditions of nonconstraint. Trudy
Inst. ist. est. i tekhn. 34:226-240 '60. (MIRA 14:2)
(Mechanics, Analytic)

POGREBYSSKIY, I.B.

Leonhard Euler; collection of articles presented by the German
Academy of Sciences on the occasion of his 250th birthday.
Reviewed by I.B. Pogrebysskii. Usp. mat. nauk 15 no.4:245-247
Jl-Ag '60. (MIRA 13:9)
(Mathematics)

GNEDENKO, B.V.; POGREBYSSKIY, I.B.

Review of "Mathematics in the USSR during the last forty years,"
vols. 1 and 2. Usp.mat.nauk 15 no.5:235-236 S-0 '60. (MIM 13:10)
(Mathematics)

EULER, Leonhard(1707-1783); POGREBYSSKIY, I.B., red.

[Introduction to the analysis of infinite series] Vvedenie v
analiz beskonechnykh. Moskva, Gos. izd-vo fiziko-matem.
lit-ry. 2 v. Vol. 1. 2. izd. 1961. Translated from the
Latin. (MIRA 15:3)
(Series, Infinite)

OSTROGRADSKIY, Mikhail Vasil'yevich, matematik, mekhanik; SHTOKALO, I.Z., akademik, otv. red.; GNEDENKO, B.V., akademik, zam. otv. red.; ISHLINSKIY, A.Yu., akademik, zam. otv. red.; BOGOLYUBOV, N.N., akademik, red.; REMEZ, Ye.Ya., red.; SAVIN, G.N., akademik, red.; SOKOLOV, Yu.D., red.; SMIRNOV, V.I., akademik, red.; YUSHKEVICH, A.P., prof., red.; POGREBYSSKIY, I.B., dotsent, red.; SHTELIK, V.G., red. izd-va; RAKHLINE, N.P., tekhn. red.

[Complete works in three volumes] Polnoe sobranie trudov v trekh tomakh. Kiev, Izd-vo Akad. nauk USSR. Vol.2. 1961. 358 p.
(MIRA 14:11)

1. AN USSR (for Shtokalo, Gnedenko, Ishlinskiy). 2. Chlen-korrespondent AN USSR (for Remez, Sokolov).
(Mechanics, Analytic)

EYLER, Leonard [Euler, Leonhard, 1701-1783]; GOKHMAN, V.S.[translator];
POGREBYSSKIY, I.B., red.; BAYEVA, A.P., red.; BRUDNO, K.F.,
tekhn. red.

[Introduction to infinitesimal analysis] Vvedenie v analiz
beskonechnykh. Red. perevoda, vstup. stat'ia i primechaniia
I.B.Pogrebysskogo. Moskva, Gos.izd-vo fiziko-matem.lit-ry.
Vol.2. 1961. 390 p. Translated from the Latin.
(MIRA 15:1)

(Calculus)

OSTROGRADSKIY, Mikhail Vasil'yevich [deceased]; SHTOKALO, I.Z., akademik,
otv.red.; GNEDENKO, B.V., akademik, otv.red.toma; ISHLINSKIY,
A.Yu., akademik, zamestitel' otv.red.; BOGOLYUBOV, N.N., akademik,
red.; REMEZ, Ye.Ya., otv.red.toma; SAVIN, G.N., akademik, red.;
SOKOLOV, Yu.D., red.; SMIRNOV, V.I., akademik, red.; YUSHKEVICH,
A.P., prof., red.; POGREBYSSKIY, I.B., dotsent, red.; SHTELIK,
V.G., red.izd-va; RAEHLTNA, N.P., tekhn.red.

[Complete collection of works in three volumes] Polnoe sobranie
trudov v trekh tomakh. Kiev, Izd-vo Akad.nauk USSR. Vol.3. 1961.
(MIRA 15:2)
395 p.

1. AN USSR (for Shtokalo, Gnedenko, Savin). 2. Chleny-korrespondenty
AN USSR (for Remez, Sokolov).
(Mathematics)
(Ostrogradskii, Mikhail Vasil'yevich, 1801-1861)

BOGOLYUBOV, N.N., red.; GNEDENKO, B.V., red.; POGREBYSSKIY, I.B., red.;
RDMEZ, Ye.Ya., red.; SMIRNOV, V.I., red.; SOKOLOV, Yu.D., red.;
SHTOKALO, I.Z., red.; YUSHKEVICH, A.P., red.; SHIROKOVA, S.A., red.;
YERMAKOVA, Ye.A., tekhn. red.

[Pedagogical heritage and documents on the life and work of Mikhail
Vasil'evich Ostrogradskii (1.1.1862 - 1.1.1962)]Mikhail Vasil'evich
Ostrogradskii, 1 ianvaria 1862 - 1 ianvaria 1962; pedagogicheskoe
nasledie, dokumenty o zhizni i deiatel'nosti. Pod red.I.B.Pogre-
byskogo i A.P.IUshkevicha. Moskva, Gos.izd-vo fiziko-matem.lit-ry,
(MIRA 15:1)
1961. 397 p.

1. Akademiya nauk SSSR. Institut matematiki.
(Ostrogradskii, Mikhail Vasil'evich, 1801-1861)

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001341610018-6

POGREBYSSKIY, I.B., kan. fiz.-mat. nauchn. radiotekhnicheskogo in-ta SSSR

Galileo Galilei; on the 400th anniversary of his birth. Test.
(MIRA 17:5)
AN SSSR 34 no. 2a122-127 F '64.

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001341610018-6"

Gnedenko, Boris Vladimirovich; Pogrebysskiy, Iosif Benediktovich;
Zaytseva, A.V., red.izd-va; Novichkova, N.D., tekhn.
red.; Zudina, V.I., tekhn. red.

[Mikhail Vasil'yevich Ostrogradskii; his life and work
as a scientist and teacher, 1801-1862] Mikhail Vasil'yevich
Ostrogradskii, 1801-1862; zhizn' i rabota, nauchnoe i pe-
dagogicheskoe nasledie. Moskva, Izd-vo AN SSSR, 1963. 269 p.
(MIRA 17:1)

MITROPOL'SKIY, Yu.A., akademik, otv. red.; BOGOLYUBOV, N.N., akademik, glav. red.; LUR'YE, A.I., red.; LYKOVA, O.B., kand. fiz.-matem. nauk, red.; NEVYTSKIY, V.V., prof., red.; PISARENKO, G.S., red.; POGREBYSSKIY, I.B., kand. fiz.-matem.nauk, red.; KORENBLIYUM, B.I., doktor fiz.-matem.nauk, red.; KOZUBOVSKAYA, I.G., red.; LISOVETS, A.M., tekhn. red.

[Proceedings of the International Symposium on Nonlinear Oscillations] Trudy Mezhdunarodnogo simpoziuma po nelineinym kolebaniam. Kiev, Izd-vo AN USSR. Vol.2.[Qualitative methods in the theory of nonlinear oscillations] Kachestvennye metody teorii nelineinykh kolebanii. 1963. 538 p. [Applications of the methods in the theory of nonlinear oscillations to problems in physics and technology] Prilozheniya metodov teorii nelineinykh kolebanii k zadacham fiziki i tekhniki. 1963. 513 p. (MIRA 17:1)

1. International Symposium on Nonlinear Oscillations, Kiev, 1961.
2. Akademiya nauk Ukr.SSR (for Mitropol'skiy).
3. Chlen-korrespondent AN SSSR (for Lur'ye).
4. Chlen-korrespondent AN Ukr.SSR (for Pisarenko).

POGREBYSSKIY, I.B.

Aleksei Nikolaevich Krylov; on the 100th anniversary of his birth.
Mat. v shkole no.4:77-80 J1-Ag '63. (MIRA 16:9)
(Krylov, Aleksei Nikolaevich, 1863-1945)

GRIGOR'YAN, A.T., doktor fiz.-matem.nauk; YUSHKEVICH, A.P., doktor fiz.-matem.
nauk; POGREBYSSKIY, I.V., doktor fiz.-mater.nauk

At the international congress of the historians of science in
Warsaw. Vest. AN SSSR 35 no.12:67-71 D '65.
(MIRA 19:1)

KOKHNO, Nikolay Arsen'yevich [Kokhno, M.A.]; POGRENYAK, P.S.
[Pohrebniak, P.S.], akademik, otv. red.; KOVAL', V.A.,
red.; DAKHNO, Yu.M. [Dakhno, IU.M.], tekhn. red.

[Maple in the wooded steppe regions of the Ukraine; biological
characteristics and ecology] Kleny lsostepovych dibrov Ukrainskoy;
biologichni osoblyvosti ta ekologiya. Kyiv, Vyd-vo Akad. nauk
URSR, 1962. 49 p. (MIRA 15:3)

1. Akademiya nauk USSR (for Pogrebnyak).
(Ukraine--Maple)

POGRESHAYEVA, M.G.

Organization of trachoma control methods in the Tajik S. S. R. Zdrav.
Tadzh. 3 no.2:13-15 Mr-Ap '56. (MIRA 12:7)

1. Nachal'nik otdela sel'skoy seti Upravleniya lechebno-profilak-
ticheskoy pomoshchi Ministerstva zdravookhraneniya Tadzhikskoy SSR.
(TAJIKISTAN--CONJUNCTIVITIS, GRANULAR)

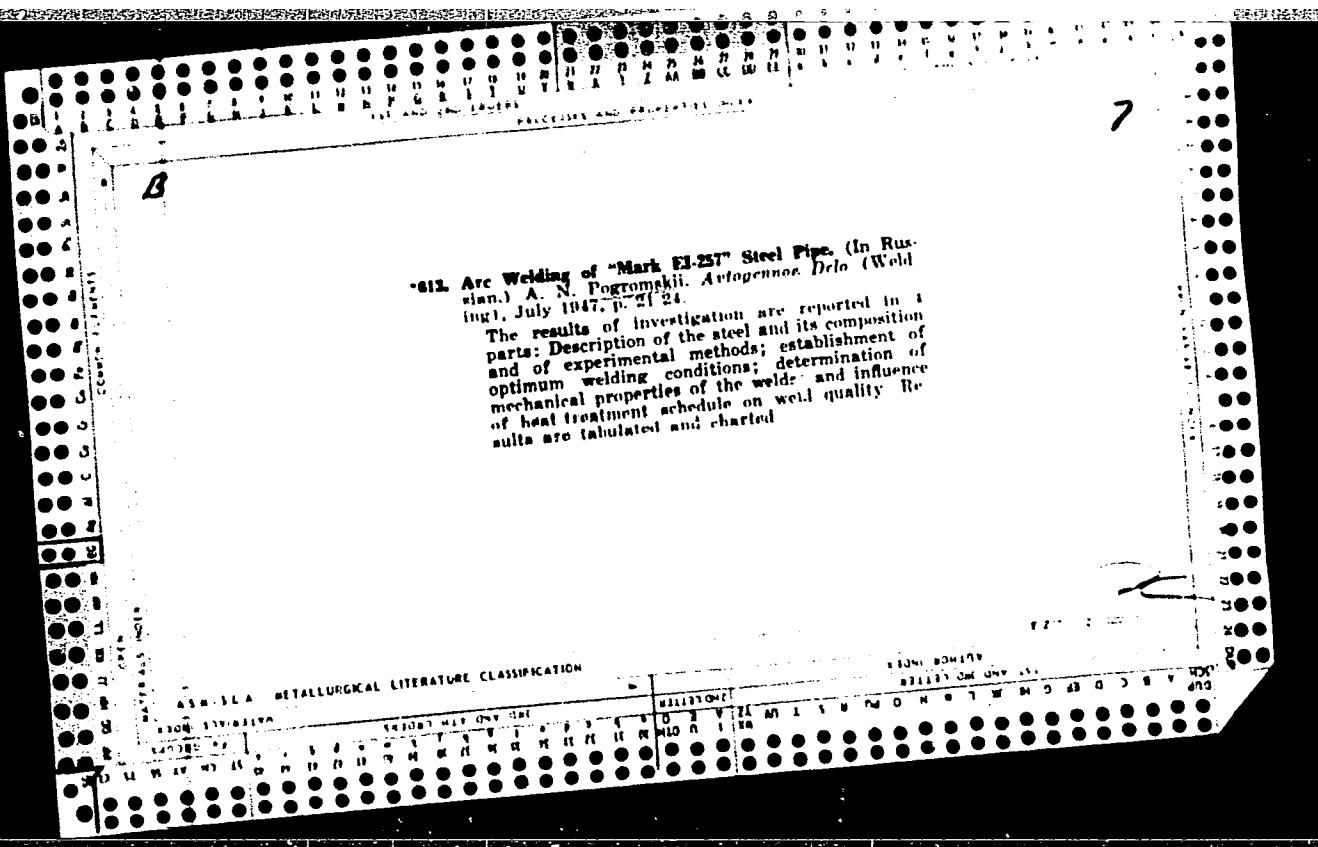
ZABRODSKIY, A.G.; VAS'KO, T.P.; PARKHOMCHUK, M.A.; POGREVNAYA, V.F.

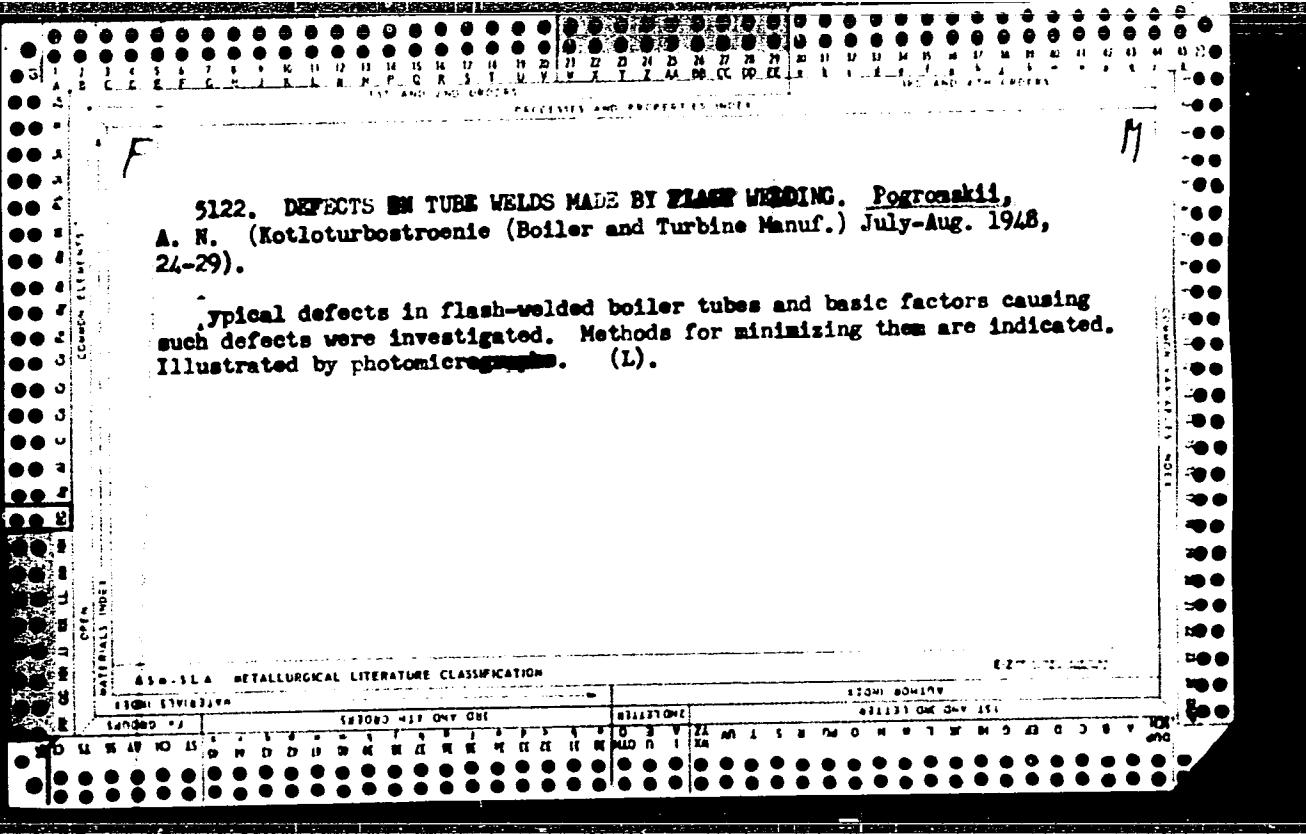
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PA 37/49T22

USSR/Engineering

Jul/Aug 48

Boilers

Welding - Strength

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Examines typical defects in machine-welded boiler tubes and discusses their causes. Suggests ways to improve standard of work. Includes sixteen illustrations.

FDB

37/49T22

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[Critical masses of uranium - beryllium reactors] Kriti-
cheskie massy uran-berillievykh reaktorov. Moskva, Glav.
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[Critical masses of uranium-graphite reactors] Kritiche-
skie massy uran-grafitovykh reaktorov. Moskva, Glav. upr.
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PLATE I BOOK EXPLOITATION SOV/5357

Избранные критические параметры реакторных систем: обзорный статья (статья о Критических Параметрах Реактора Системы. Коллекция из Аrticles) Moscow, Gosizdat, 1960. 117 p. Errata slip inserted. 3,600 copies printed.
Tech. Ed.: N.A. Vinogradov.

PURPOSE: This collection of articles is intended for nuclear physicists and engineers of nuclear power plants.

CONTENTS: The book contains previously unpublished original articles concerned with the theoretical calculation of neutron fluxes and of critical parameters (critical masses and volumes) of various reactor systems: uranium-graphite, uranium-beryllium, and water mixtures of uranium and plutonium. Individual articles present tables and graphs used in the determination of the dependence of critical parameters on the relative concentration and the character of the fissionable material and the moderator, as well as on fuel enrichment for a wide range of neutron energy spectra. The following are mentioned: P.A. Gavrilov (scientific editor of the collection), and S.I. Sobolov, L.N. Sychkova, A. Ya. Ryulina, R.P. Roschina and V.S. Vladimirov (compilers of Table 1, table of values of coefficients k_D and τ). References accompany individual articles.

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21(1)	PHASE I BOOK EXPLOITATION	SOW/253
	International Conference on the Peaceful Uses of Atomic Energy.	
	22x, Geneva, 1958.	
	Soviet Academy of Sciences; Nuclear Reactor 1, Yedernaya energeticheskaya reaktoriya; Federative Republic of Soviet Scientists; Nuclear Reactors and Nuclear Power, Moscow, Atomizdat, 1959. 707 p. (Series, vol. 2, Errata slip inserted. 8,000 copies printed.	
	General Eds.: M.A. Dolzhikov, Corresponding Member, USSR Academy of Sciences, A.K. Arzhannikov, Doctor of Physical and Mathematical Sciences, A.R. Lepanskiy, Member, Ukrainian SSR Academy of Sciences, I.I. Borovik, Corresponding Member, USSR Academy of Sciences, and V.S. Al'tshul, Doctor of Physical and Mathematical Sciences; Eds.: A.P. Porosov, Ye. I. Mazel'.	
	PURPOSE: This book is intended for scientists and engineers engaged in reactor design, as well as for professors and students engaged in higher technical schools where reactor design is taught.	
	CONTENTS: This is the second volume of a six-volume collection on the peaceful uses of atomic energy. The six volumes contain the reports presented by Soviet scientists at the Second International Conference on the Peaceful Use of Atomic Energy, held from September 1-13, 1958, in Geneva. Volume 2 consists of three parts. The first is devoted to atomic power plants; the second to experiments under construction in the Soviet Union; the third, which is predominant, theoretical, to improve theory and nuclear reactor physics and construction engineering problems; and Borovik is the scientific editor of this volume. See SOW/2091.	
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B102/B166

21/00

AUTHORS: Marchuk, G. I., Kochergin, V. P., Pogudalina, Ye. I.,
Kuznetsova, L. I.

TITLE: Application of an effective one-group method to calculating of
nuclear reactors

PERIODICAL: Teoriya i metody rascheta yadernykh reaktorov; sbornik
statey. Ed. by G. I. Marchuk. Moscow, Gosatomizdat, 1962,
79 - 85

TEXT: Several problems on applying one-group methods to criticality
calculations are discussed. Though one-group approximation is less accurate
than multi-group methods, it can be used for improving the critical
parameters. Since e.g. the formulas for averaging the constants are
fractional-linear functionals it is possible to average the constants with-
out needing to use the true solutions of the reactor equations. This can
be done by any approximate solution to these equations, e.g. the diffusion
or P_1 -approximation. The constants then used for calculating the critical
parameters yield a better approximation than P_1 . Several variants of

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Application of an...

applying one-group reactor equations are analyzed. If the system of reactor equations

$$\begin{aligned} \nabla \varphi_1 + \Sigma \varphi_0 &= \int_{u=r}^u \sum_s f(u-u') \varphi_0(r, u') du' \\ &+ \int_{-\infty}^u \sum_{in}(u') \Sigma(u, u') \varphi_0(r, u') du' + \chi(u) \varphi(r); \\ \frac{1}{3} \nabla \varphi_0 + \Sigma \varphi_1 &= \int_{u=r}^u \sum_s f_1(u-u') \varphi_1(r, u') du' \end{aligned} \quad (1)$$

is represented as multi-group equations in P_1 approximation, the effective one-group constants are

$$\bar{\Sigma}_c = \frac{\int dr \varphi_0^* \bar{\Sigma}_c \varphi_0}{\int dr \varphi_0^* \bar{\varphi}_0}; \quad \bar{\Sigma}_f = \frac{- \int dr \varphi_0^* \chi(r)}{\int dr \varphi_0^* \bar{\varphi}_0}; \quad \bar{\Sigma}_{tr} = \frac{\int dr \nabla \varphi_0^* \bar{\nabla} \varphi_0}{3 \int dr \nabla \varphi_0^* \bar{\varphi}_1} \quad (10)$$

where

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$$Q(r) = \int_{-\infty}^{\infty} v \Sigma f \varphi_0(r, u) du, \bar{\Sigma}_c \varphi_0 = \sum_{j=1}^m [r_c^j \varphi_0^j + (1 - P^j) q^j], \bar{\varphi}_0 = \sum_{j=1}^m \varphi_0^j, \bar{\varphi}_1 = \sum_{j=1}^m \varphi_1^j$$

P^j is the resonance capture probability, q^j the moderator density, $X(u)$ is the fission spectrum, Σ the total macroscopic cross section, Σ_e and Σ_{in} elastic and inelastic scattering cross sections, r the maximum logarithmic energy loss, f_0 , f_1 and w are collision functions; $\bar{\Sigma}_c$, $\bar{\Sigma}_{tr}$ and $\bar{v}\Sigma_f$ are cross sections chosen such that the k_{eff} calculated from (1) and from the conjugate equations

$$-\nabla \varphi_1^* + \bar{\Sigma}_c \varphi_0^* = \bar{v}\Sigma_f \varphi_0^*, \quad -\frac{1}{3} \nabla \varphi_0^* + \bar{\Sigma}_{tr} \varphi_1^* = .0 \quad (4),$$

coincide. In first approximation one can replace φ_0^* and φ_1^* in (10) by $\bar{\varphi}_0$ and $\bar{\varphi}_1$. With the one-group constants thus obtained the system (4) is solved, after which the constants are averaged again making use of (10). This process is repeated successively until k_{eff} from (4) becomes constant. \checkmark

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Application of an...

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The one-group constants can be used for improving the critical mass parameters by solving the one-group kinetic equation

$$\Omega \nabla \varphi + \bar{\Sigma}_{tr} \varphi = \frac{\bar{\Sigma}_{tr} - \bar{\Sigma}_c + v \bar{\Sigma}_f}{4\pi} \int \varphi d\Omega \quad (11)$$

with the method of spherical harmonics. This is done for a spherical reactor with infinite water reflector. The critical mass of aqueous solutions of 90% enriched UO_2F_2 is calculated in P_3 -approximation using the above described one-group method and a multi-group method. The deviation is $\sim 5\%$. Similar calculations are carried out for uranium graphite systems. There are 3 figures.

Card 4/4

MARCHUK, G. I., PUPKO, V. Y., POGUDALINA, E. L., SMELOV, V. V., TUTEREV,
I. P., PLATONOV A, S. P. and DRUZHININA, G. I.

"Nuclear Reactor Physical Problems and Calculation Methods."

paper to be presented at 2nd UN Intl. Conf. on the peaceful uses of Atomic
Energy, Geneva, 1 - 13 Sep 58,

"APPROVED FOR RELEASE: 06/15/2000

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POGUDAYEV, N.I., fel'dsher

Some rural public health problems. Fel'd i akush. 24 no. 8:40-41
Ag '59. (MIRA 12:12)

1. Stepanovskiy fel'dshersko-akusherskiy punkt Ryazansko oblasti.
(RYAZAN PROVINCE--PUBLIC HEALTH, RURAL)

APPROVED FOR RELEASE: 06/15/2000

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L 06123-67 ENT(1)

ACC NR: AP6022905

SOURCE CODE: UR/0292/66/000/004/0025/0026

AUTHOR: Abdulayev, A. A. (Candidate of technical sciences); Pogudin, A. I. (Candidate of technical sciences)

ORG: none

TITLE: Semiconductor power rectifiers operated at higher frequencies

SOURCE: Elektrotehnika, no. 4, 1966, 25-26

TOPIC TAGS: semiconductor rectifier, power rectifier, silicon rectifier

ABSTRACT: Experimental I-V characteristics (forward branches) of D-303, VG-10-30, VG-50-30, VG-50-50, PVK-100, and VK-200 power diodes operated at frequencies 100--5000 cps are reported. It is found that the rectifying properties of the diodes deteriorate with higher (particularly 1000 cps and over) frequencies; heavier currents make the rectifying characteristics still worse. The rectifying characteristics of diodes belonging to one group have considerable spread. Orig. art. has: 4 figures.

SUB CODE: 09 / SUBM DATE: none

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